Iowa Department of Natural Resources
Wastewater Section
Construction Permit Application
SCHEDULE M, Fixed Film Reactor – Stationary Media

DATE PREPARED	PROJECT IDENTITY	DNR USE
		PROJECT NO.
DATE REVISED		PERMIT NO.

1. Design Loadings: (waste entering reactor unit operation)

	ADW	AWW	MWW	PHWW
Flow, MGD				
BOD_5, mg/l				
TSS, mg/l				
NH_3-N, mg/l				

Design Temp. _____ ° F

2. Reactor unit operation follows _____ and precedes _____

3. Design data: First stage _____ Second stage _____

		Unit 1	Unit 2	Unit 3
Specify whether new or existing				
Classification				
Dimensions				
Surface Area (ft^2)				
Media Depth (ft.)				
Media Volume (1,000 ft^3)				
Media:	A. Type			
	B. Size			
	C. Grading			
Type of Distributor				
Activated by				
BOD Loading (#/D/1,000 ft^3)				
Hydraulic Loading (gpm/ft^2)				
Underdrainage	A. Type			
	B. Slope			
	C. Min. Channel Velocity			
Recirculation Ratio				

4. Method of reactor flooding _____

5. Ventilation provisions _____

6. Type of cover provided _____

7. Is service bypass provided? _____ Discharge to _____

8. _____

Recirculation Pumps

Pump No.	Location	Type	Capacity (GPM)	TDH (ft)		Discharged to
				Rated	Computed	
1						
2						
3						
4						